# PATENT COOPERATION TREATY

REC'D 23 MAR 2005

INTERNATIONAL PRELIMINARY REPORT ON PATENTAUMORY
(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference				
P2077PC00	FOR FURTHER ACTION	See Form PCT/IPEA/416		
International application No.	International filing date (day/monti	h/year) Priority date (day/month/year)		
PCT/NO 2003/000437	22-12-2003	30-12-2002		
International Patent Classification (IP	C) or national classification and IPC	30-12-2002		
G02B26/12, G02B27/4	4, G02B5/18			
		•		
A1:	· · ·			
Applicant				
SINVENT AS ET AL				
1. This report is the international		The Bank of the Control of the Contr		
	are apprount according	shed by this International Preliminary Examining to Article 36.		
2. This REPORT consists of a to		this cover sheet.		
<ol><li>This report is also accompanie</li></ol>	d by ANNEXES, comprising:			
<del></del>				
- La (sem to the applic	ant and to the International Bureau) a to	sheets, as follows:		
sneets of t	ne description, claims and/or drawings w	which have been amended and are the basis of this report		
Administr	ative Instructions).	y uns Authority (see Rule 70.16 and Section 607 of the		
sheets wh	ch supersede earlier sheets, but which th	is Authority considers contain an amendment that goes		
Suppleme	disclosure in the international applicational Box	is Authority considers contain an amendment that goes on as filed, as indicated in item 4 of Box No. I and the		
<u> </u>				
0. (sent to the Interne	<i>tional Bureau only)</i> a total of (indicate t	ype and number of electronic carrier(s))		
	Containing a good-	- 3. 1		
Administrative Ins	tructions).	ce listing and/or tables related thereto, in computer Relating to Sequence Listing (see Section 802 of the		
4. This report contains indication:	relating to the following items:			
Box No. I Basis	of the report			
Box No. II Prior	•			
	•			
Box No. IV Lack	of white action of opinion with regard to r	novelty, inventive step and industrial applicability		
<b>=</b>	of unity of invention			
	oned statement under Article 35(2) with a	regard to novelty, inventive step or industrial		
	cability; citations and explanations support in documents cited	orting such statement		
<b>=</b>	n defects in the international application			
<u></u>				
	n observations on the international appli	cation		
ate of submission of the demand	Details			
	Date of com	pletion of this report		
9-06-2004				
ame and mailing address of the IPEA/		10-03-2005		
Stent- och registreringsman.	Authorized	officer		
DX 5055 -102 42 STOCKHOLM				
acsimile No. +46 8 667 72 88	Anna L	undqvist /LR		
orm PCT/IPEA/409 (cover sheet) (January	Telephone N	No. +46 8 782 25 00		

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/NO 2003/000437

Box	No. I	Basis of the report	
1.	With	regard to the language, this report is based on the international application in the language indicated under this item.	
	Ш	This report is based on a translation from the original language into the following language which is the language of a translation furnished for the purposes of:	age,
		international search (under Rules 12.3 and 23.1(b))	
		publication of the international application (under Rule 12.4)	•
		international preliminary examination (under Rules 55.2 and/or 55.3)	
2.	With furnisa and an	regard to the elements of the international application, this report is based on (repleted to the receiving Office in response to an invitation under Article 14 are referred to the receiving to this report):	lacement sheets which have bee in this report as "originally filed
	$\boxtimes$	the international application as originally filed/furnished	
		the description:	
		pages	oo oololo 11. 61. 1/6 1 . 1
		pages* received by this Authority on	as originally filed/furnished
		pages* received by this Authority on	
		the claims:	
	•	pages	as originally filed/furnished
		pages* as amended (together with	any statement) under Article 19
		received by this Authority on	
1		received by this Authority on	
- 1	Ш	the drawings:	<del></del>
		pages	as originally filed/furnished
		received by this Authority on	
ī	$\neg$	received by this Authority on	
L		a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequen	ce Listing.
3. [		The amendments have resulted in the cancellation of:	•
		the description, pages	
		the claims, Nos.	
		the drawings, sheets/figs	•
		the sequence listing (specify):	
		any table(s) related to the sequence listing (specify):	
<b>ւ</b> [		This report has been established as if (some of) the amendments annexed to this report made, since they have been considered to go beyond the disclosure as filed, as indicated 70.2(c)).	t and listed below had not been in the Supplemental Box (Rule
		the description, pages	
		the claims, Nos.	
		the claims, Nos. the drawings, sheets/figs	<del></del>
		the drawings, sheets/figs the sequence listing (creeifs):	<del></del>
		the sequence listing (specify):	
		any table(s) related to the sequence listing (specify):	·
If:	item 4	applies, some or all of those sheets may be marked "superseded."	
rm P(	CT/IPI	EA/409 (Box No. I) (January 2004)	

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/NO 2003/000437

Box No. V	Reasoned statement citations and explana	under Article tions support	35(2) with regard to novelty, inventive stong such statement	ep or industrial applicability;
1. Statement			·	•
Noveli	ty (N)	Claims Claims	1-7	YES NO
Inventi	ive step (IS)	Claims Claims	1-7	YES NO
Industr	ial applicability (IA)	Claims Claims	1-7	YES NO

#### 2. Citations and explanations (Rule 70.7)

This application relates to a configurable diffractive optical element comprising an array of diffractive sub-elements having a reflective surface, wherein each sub-element has a controllable position with a chosen range, and in which a number of sub-elements are provided with a reflective grating with a number of chosen spectral characteristics.

Documents cited in the International Search Report:

D1: US 20030174958 A D2: EP 0750207 A2

The cited documents represent the general state of the art.

The invention defined in claims 1-7 is not disclosed by any of these documents.

The cited prior art does not give any indication that would lead a person skilled in the art to the claimed optical element. Therefore, the claimed invention is not obvious to a person skilled in the art.

Accordingly, the invention defined in claims 1-7 is novel and is considered to involve an inventive step. The invention is industrially applicable.

#### INTERNATIONAL SEARCH REPORT

International application No.

#### PCT/NO 2003/000437 A. CLASSIFICATION OF SUBJECT MATTER IPC7: G02B 26/12, G02B 27/44, G02B 5/18 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC7: G02B Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched SE,DK,FI,NO classes as above Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) EPO-INTERNAL, WPI DATA C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Category\* Relevant to claim No. US 20030174958 A (CIZEK ET AL), 18 Sept 2003 (18.09.2003), page 1 [0007]-page 2 [0011]; page 4 Α 1-3,6,7 [0042]-page 5[0046]; fig 5-9, člaims 1-20 A EP 0750207 A2 (EASTMAN KODAK COMPANY), 1,2,6,7 27 December 1996 (27.12.1996), page 1, line 56 - page 2, line 14, figures 1,2, claims 1-7 Further documents are listed in the continuation of Box C. See patent family annex. Special categories of cited documents: later document published after the international filing date or priority date and not in conflict with the application but cited to understand document defining the general state of the art which is not considered to be of particular relevance the principle or theory underlying the invention "P." earlier application or patent but published on or after the international "X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive filing date document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) step when the document is taken alone document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination document referring to an oral disclosure, use, exhibition or other document published prior to the international filing date but later than the priority date claimed being obvious to a person skilled in the art "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 18 March 2004 1 9 -03- 2004 Name and mailing address of the ISA/ Authorized officer **Swedish Patent Office** Box 5055, S-102 42 STOCKHOLM Igor Gazdik/EK Facsimile No. +46 8 666 02 86 Telephone No. + 46 8 782 25 00

### INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No. PCT/NO 2003/000437

US	20030174958	A	18/09/2003	NONE		
EP	0750207	A2	27/12/1996	JP US	9015411 A 5701005 A	17/01/1997 23/12/1997

Form PCT/ISA/210 (patent family annex) (January 2004)